

## CLAIMS

13. A soil sampling device, comprising:

a housing defining an open inner chamber, the housing having a first end and a second end;

an opening formed in the second end of the housing and defining a passageway from outside the housing to the inner chamber;

a groove at least partially surrounding the passageway;

a tube formed to include a flange, the flange engageable with the groove to couple the tube to the housing; and

a plunger slideably positioned within the tube and moveable over a distance between a first position wherein a tail of the plunger is toward the flange of the tube and a second position wherein the tail of the plunger is away from the flange and abuts an abutment surface within the inner chamber of the housing.

14. The soil sampling device of claim 13, wherein the distance can be varied.

15. A soil sampling device, comprising:

a housing having a first end and a second end and defining an open inner chamber and a longitudinal axis, the second end of the housing including an opening providing a passageway from outside the housing to the inner chamber;

a groove formed in the opening;

20250500 010902

an abutment surface positioned within the inner chamber and moveable along the longitudinal axis;

a tube formed to include a flange engageable with the groove to couple the tube to the housing; and

a plunger slidably positioned within the tube and having an end moveable between a first position toward the flange and a second position away from the flange and abutting the abutment surface.

16. A soil sampling device, comprising:

a hollow housing, including a moveable abutment surface positioned within the housing;

a tube coupled to the housing; and

a plunger slidably positioned within the tube, the plunger including an end, the plunger moveable between a first position wherein the plunger end abuts the tube and a second position wherein the plunger end abuts the abutment surface.

17. The soil sampling device of claim 16, wherein the tube further includes a flange positioned within a groove in the housing.

18. The soil sampling device of claim 16, wherein the first position is spaced apart from the second position by a distance and the distance is adjustable.